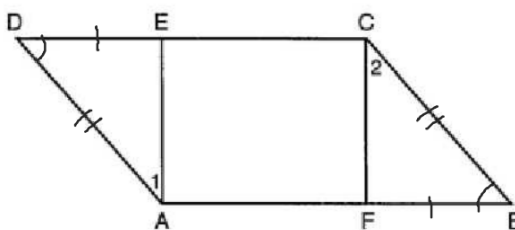


Given:  $\square ABCD$   
 $\overline{DE} \cong \overline{FB}$

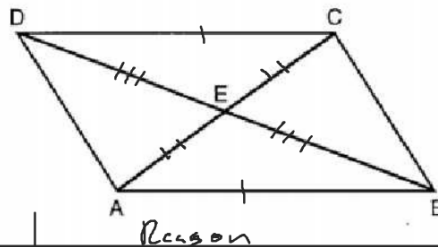
Prove: a)  $\triangle DEA \cong \triangle BFC$   
 b)  $\angle 1 \cong \angle 2$



Statement	Reason
1) $\square ABCD$ ; $\overline{DE} \cong \overline{FB}$	1) Given
2) $\overline{AD} \cong \overline{BC}$	2) opposite sides of $\square \cong$ .
3) $\angle B \cong \angle D$	3) Opposite $\angle$ 's of $\square$ are $\cong$ .
4) $\triangle DEA \cong \triangle BFC$	4) SAS
5) $\angle 1 \cong \angle 2$	5) CPCT

Given:  $\square ABCD$

Prove:  $\triangle AEB \cong \triangle CED$



Statement	Reason
1) $\square ABCD$	1) Given
2) $\overline{AB} \cong \overline{DC}$	2) Opposite sides of $\square$ are $\cong$ .
3) $\overline{DE} \cong \overline{BE}$ $\overline{AE} \cong \overline{CE}$	3) Diagonals of $\square$ bisect each other

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**Given:**  $\square ABCD$

**Prove:**  $\triangle DAC \cong \triangle BCA$

